

FENCE



Industrial-Institutional-Estate-Home

L. E. Jones Wire & Iron Works

321 No. Calvert St., Baltimore, Md.

THE



OF THE





AMERICAN

WIRE FENCE

Steel Fence Posts
 Woven Wire Field Fence
 Chain Link Fence and Gates
 Lawn Fence and Gates
 Poultry Netting
 Barbed Wire
 Walk Gates
 Farm Gates

Concrete Reinforcement of All Kinds
 Manufactured Under Trade Name of
 American System of Reinforcing

Works: LIBERTYVILLE, ILLINOIS

General Office

7 SOUTH DEARBORN STREET
 CHICAGO, ILLINOIS

foreword

IN EVERY field of commercial industry there is almost invariably one, or perhaps two, organizations for whom there is a peculiarly individual and genuine respect—or a regard that is not confined to the public at large but extends also to competing manufacturers.

This outstanding organization need not be the wealthiest in terms of cash, buildings or resources, nor the venerable patriarch of the industry—in fact, it seldom aspires to either of these distinctions.

But in its intercourse with all whom it serves and with whom it competes, its measure of service rendered has been great, its policy ethical, its record immaculate, and its spirit friendly and progressive.

Such an organization is the American Wire Fence Company. Among engineers, the steel industry in general, and fence manufacturers and users the world over, this company has attained and maintained for twenty-three years a standard of excellence seldom expected and rarely encountered in modern business practice.



Combining elegance of design with every known factor of permanent strength, American Wire Fence affords the ultimate in property protection.



Mechanically Perfect—Artistically Correct

WITH the issuing of this catalog, a new chapter is written in fence history—a history already crowded with achievements of the American Wire Fence Company.

After months of exhaustive experiments and tests, many of them unsuccessful and disappointing, American engineers announce the greatest single improvement in fence construction in fifteen years—namely, *pressed steel fittings*.

Lack of space here prohibits adequate description. Pages 12-13 illustrate and describe the importance of this truly remarkable contribution to the more complete satisfaction of fence users.

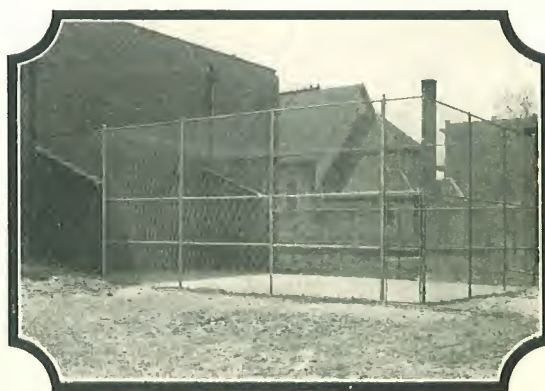
This latest achievement unmistakably reflects the character of the American Wire Fence Company and its products.

And for whatever purpose your purchase of fence is intended—protection, privacy, property control or ornament, you are assured that the design, materials, construction, strength and installation of American Wire Fence will meet your requirements.

You may rest assured, also, that in the fence and accessories you buy from this company are embodied every new refinement, every factor of strength, honest materials and workmanship unsurpassed anywhere.



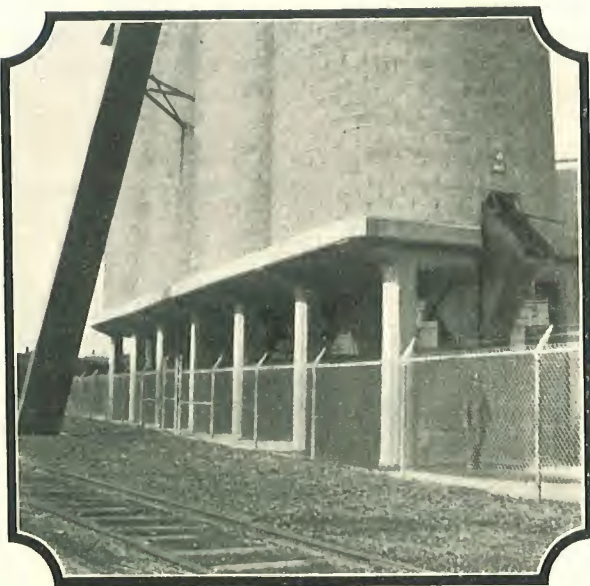
No greater blending of ornamentation, distinction, strength, permanence and economy of both first and upkeep cost is obtainable. American Wire Fence is the all-purpose fence for Industrial Plants, Private Estates, Public Utilities, Municipalities, Schools, Colleges, Athletic Fields, Cemeteries, Institutions and Residences.



American Industrial Fence



Unclimbable, generously and uniformly galvanized after weaving, and with pull and stress distributed evenly over its entire length, this fence surrounding a Chicago factory effectually prevents trespass.



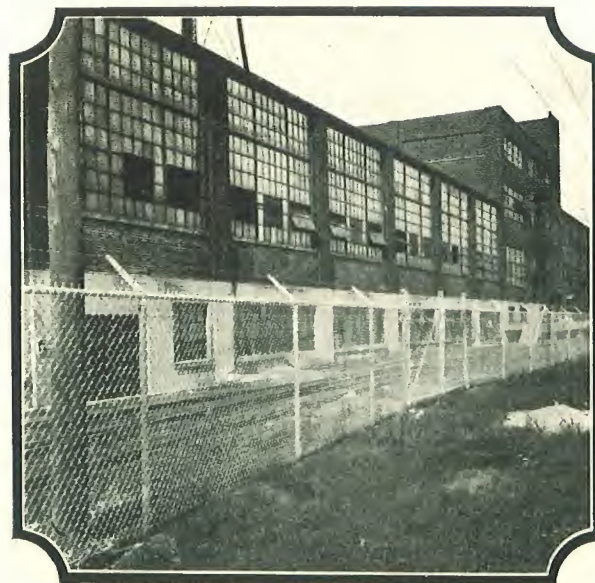
A STRONG barrier that will last for years and offers no foot-hold for climbing. Available in either No. 6 or No. 9 wire of 2" mesh with or without barb wire top. Uniform galvanizing throughout resists rust and corrosion, and makes annual painting unnecessary. Erecting a fence of this nature establishes privacy and property control obtainable in no other manner.

American Industrial Fence



An installation including loading and switching tracks. Such protection eliminates accidents to casual trespassers and prevents also the theft of valuable freight from cars.

PART of an American Wire Fence installation along a railway right-of-way, providing ample protection against dangerous trespassers and thieves. Posts supporting fence are sunk in concrete which is shaped to prevent corrosion and rust through standing water. No detail of correct erection is overlooked—no weak accessories are permitted.



American Estate Protection



American Wire Fence lining both sides of state highway and guarding two great estates along Chicago's famous North Shore. Such a fence forbids entrance to careless picknicker and unwelcome tourist.



UNEVENNESS of terrain offers no obstacle to American Wire Fence installations. No degree of strength or permanence need be sacrificed in enclosing your property because of steeply rising banks, depressions or rolling ground. Once installed and braced properly your fence may be depended upon to give positive protection for many years. Note the perfect "hang" and post alignment.

American Institutional Protection

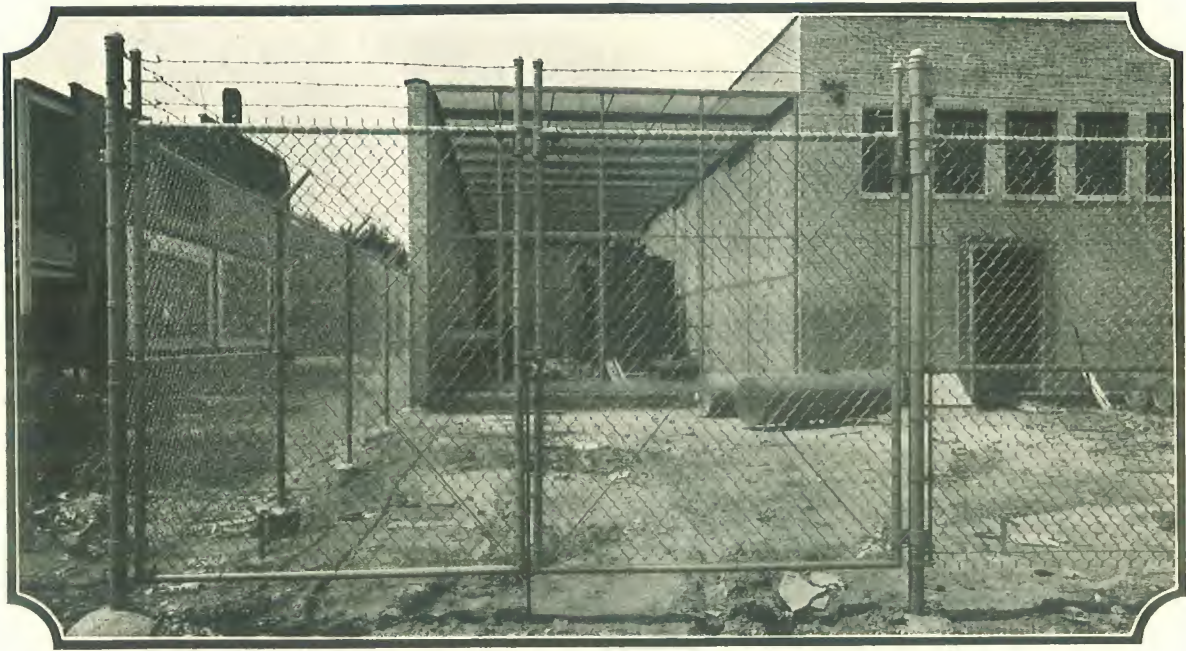


American Wire Fence was considered a necessary and attractive addition to the equipment and completeness of this State home for the poor.

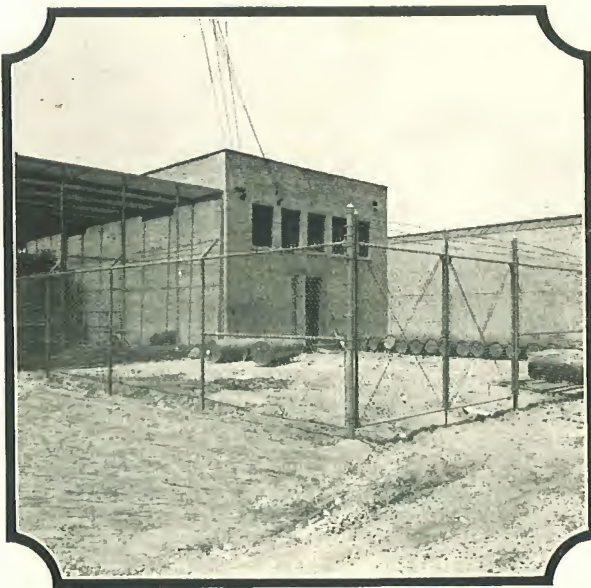
ANOTHER installation surrounding a school playground. Control of pupils is assured, and school property is protected the year round. In this installation the fence was mounted upon a concrete wall and still further protection was provided through the addition of three strands of barbed wire. Such a fence keeps children on the school playground.



American Sub-Station Protection



Part of a noteworthy installation guarding the plants and grounds of a mid-western Sub-station. Absolute protection against tampering and danger through high voltage wires is assured.



WITH a great number of sub-stations American Wire Fence is standard. Quality of wire, precision of weaving, uniformity of galvanizing, all combine to provide maximum strength and lower maintenance expense. A majority of this country's leading industries standardize upon this durable and highly successful type of protection.

American Golf Club Protection



More and more golf and country clubs are insuring the privacy of their grounds through the installation of this attractive type of chain-link protection fence.

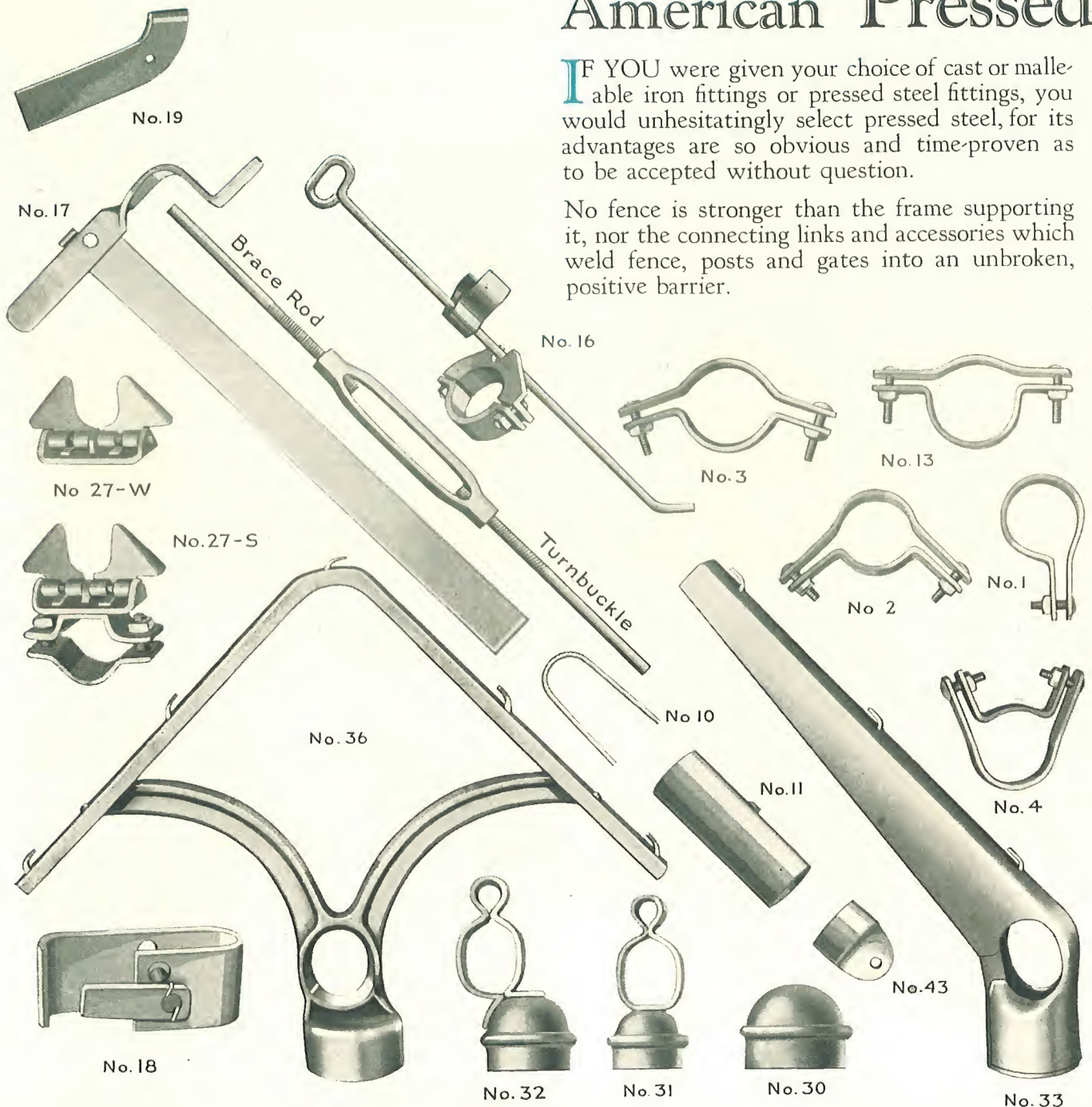
AN American installation surrounding the golf course of a popular country club. Casual trespassing is dangerous to the trespasser and a hazard to the players. Both are eliminated through the installation of American Wire Fence. American representatives have every facility necessary to erect any and all types of fence you may require.



American Pressed

IF YOU were given your choice of cast or malleable iron fittings or pressed steel fittings, you would unhesitatingly select pressed steel, for its advantages are so obvious and time-proven as to be accepted without question.

No fence is stronger than the frame supporting it, nor the connecting links and accessories which weld fence, posts and gates into an unbroken, positive barrier.



No. 1 Tension Band.
2 " "
3 " "
4 " "
5 " Bar.
6 Brace Band.

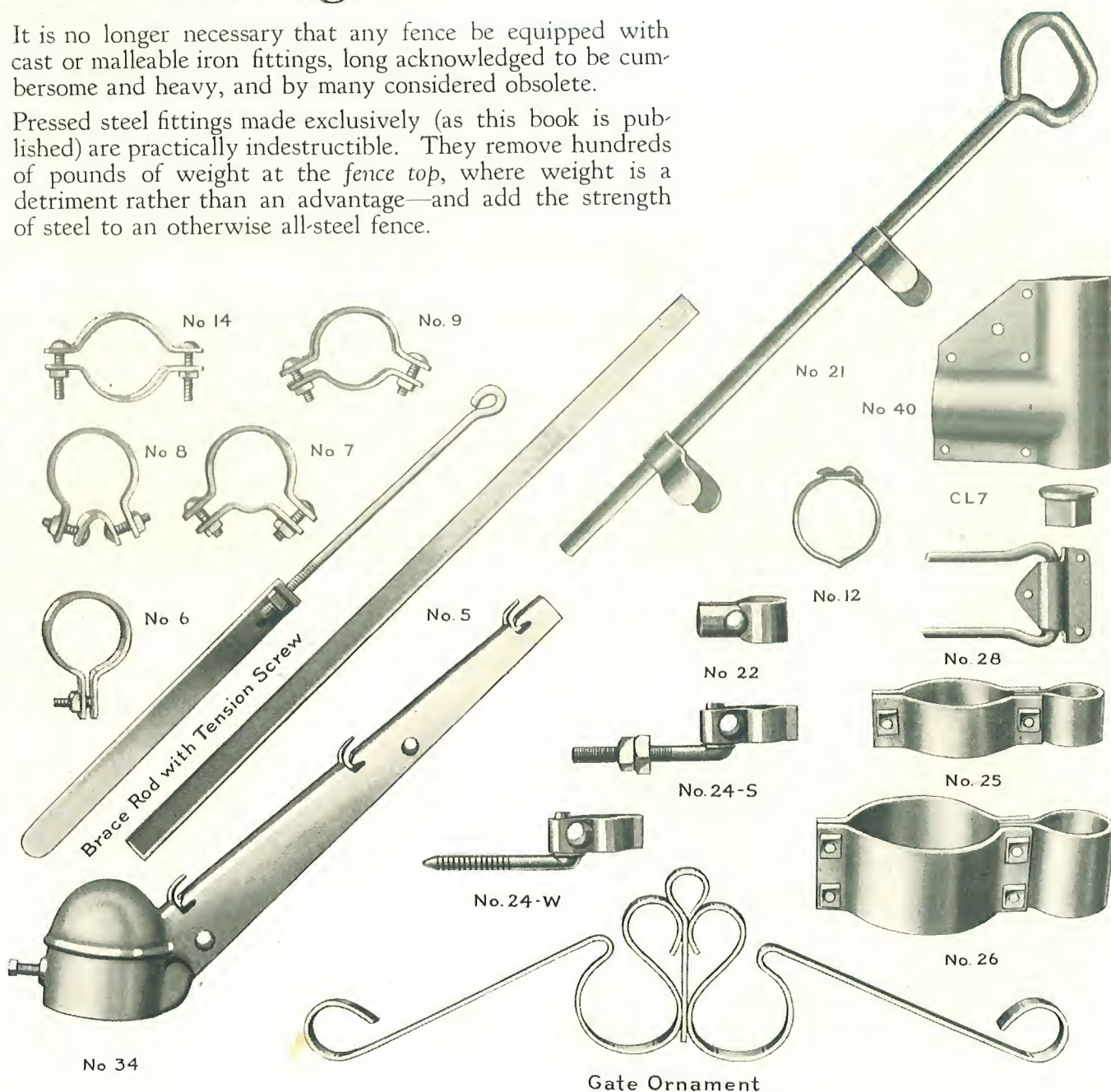
No. 7 Brace Band.
8 " "
9 " "
10 Top Rail Staple.
11 " " Sleeves.
12 Band and Link, round.

No. 13 Tension Band.
14 Brace "
16 Gate Latch.
17 " Keeper.
18 " Latch.
19 " "

Steel Fittings

It is no longer necessary that any fence be equipped with cast or malleable iron fittings, long acknowledged to be cumbersome and heavy, and by many considered obsolete.

Pressed steel fittings made exclusively (as this book is published) are practically indestructible. They remove hundreds of pounds of weight at the fence top, where weight is a detriment rather than an advantage—and add the strength of steel to an otherwise all-steel fence.

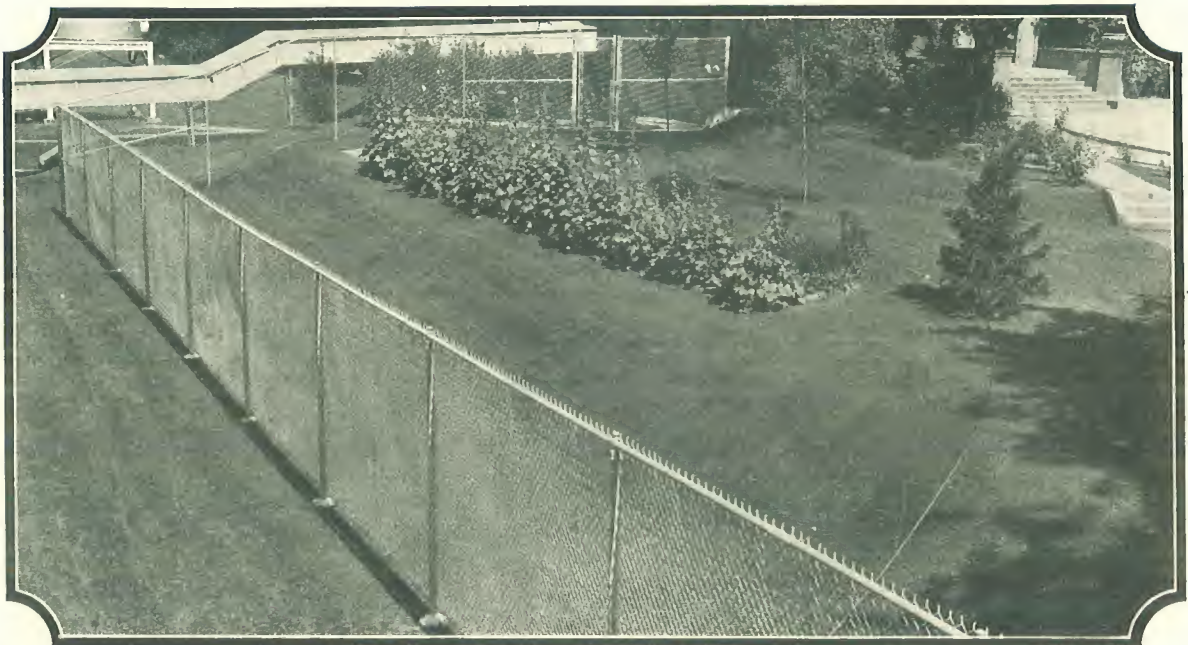


No. 21 Gate Stop.
 24-W Hinge with lag screw hook.
 24-S " " with hook bolt & nuts.
 25 " "
 26 " "
 27-W Gate Latch for Wood Posts.
 27-S " " " " Pipe Post.

No. 28 Gate Latch for Wood Post.
 30 Dome Top.
 31 Line Post Top.
 32 " " "
 33 Three Wire Arm for Line Post.
 34 " " " " Corner.
 Posts.

No. 36 Five Wire Arm.
 40 Gate Corner.
 43 Brace End.
 Brace Rod with Turnbuckle.
 CL7 Pipe Cap.

American Residence Protection



American Fence adds a final note to the completeness of your lawn and the shrubs and gardens that adorn it. The style shown here may be obtained in heights 36 to 60 inches.



MORE and more home owners are taking advantage of the privacy and protection afforded by American Wire Fence. It permits exclusiveness without the offense aggravated by brick and stone walls, and offers no impediment to light and air so necessary to the growth of flowers and grass. Installed under the direction of American representatives, its beauty and efficiency will permanently enhance the appearance and value of your property.

American Residence Protection

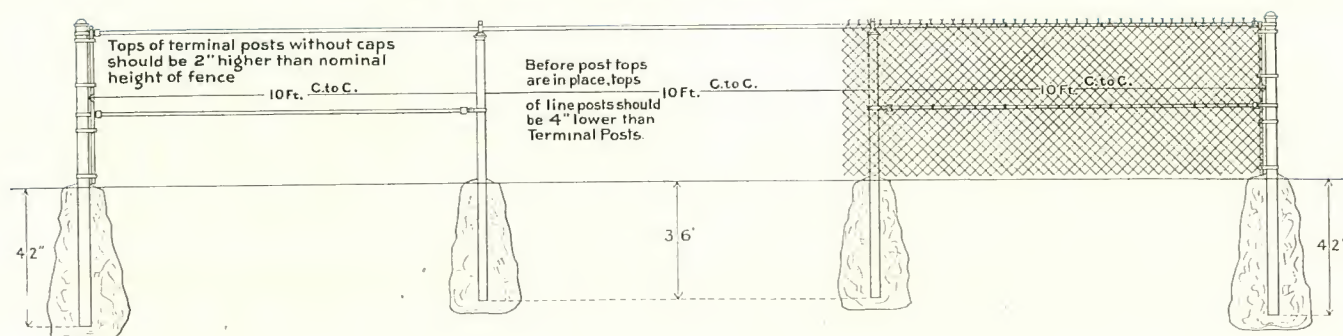


Privacy is established, protection afforded, and an atmosphere of well-ordered home life is created through the installation of this attractive type of residence fence.

FOR homes, large or small, the American Wire Fence Company has provided a style of fence to meet your every requirement. Heavy, medium and light weight wire and correspondingly graded posts and fittings offer a comprehensive selection to choose from and the completed fence will prove a wise investment and an economical improvement in the attractiveness of your home.



Fence Installation



A FENCE should be installed with the same precision and care as that given a house because a fence designates your property line. Therefore, the first necessary step is to have your property surveyed and all ends and corners located. Stakes should be driven at these points and a line or cord may be stretched between terminal stakes. Then drive stakes in line for gate opening—i. e., stakes for a three-foot gate should be driven exactly three feet apart from inside to inside of stake. All stretches between terminal posts should be divided into approximate ten-foot spaces for location of line posts, and stakes driven. The property is now staked into ten-foot spaces with the exception of gate stakes, which may vary as to the size of opening.

The life of the fence depends entirely upon the terminal posts which are the most important parts of the fence because they must withstand the strain of stretching wire between them.

Holes for terminal posts should be dug at least three feet deep and fifteen to twenty inches in diameter, according to the nature of the soil and the length of stretch. The bottom of the hole should be larger than the top, preferably bell-shape as this prevents heaving of the posts. The line post holes should be dug two and one-half feet deep and eight inches in diameter, also bell-shaped.

Mixing Concrete

The best system of mixing concrete is on a platform of boards placed close together so that the water cannot leak through the cracks, although any clean, hard surface which will not absorb water is satisfactory. Concrete can be mixed dry and the water added in a wheelbarrow when ready for use. We suggest the following mixture for fence posts: 1-2-4 Mix; or one part cement, two parts clean, sharp sand, and four parts aggregate, free from dirt and clay.

The sand should be measured and spread evenly and the cement placed on top of the sand. This material should be thoroughly mixed by turning over with a shovel or hoe until the color is uniform. Spread the mixture again and cover with the correct amount of gravel or aggregate, and thoroughly mix again. When the mixture is uniform add approximately six gallons of water to the bag of cement or enough water so that the material will cling to the shovel without running off freely. Do not mix too much concrete at one time, as it will not set properly if allowed to stand over 15 minutes.

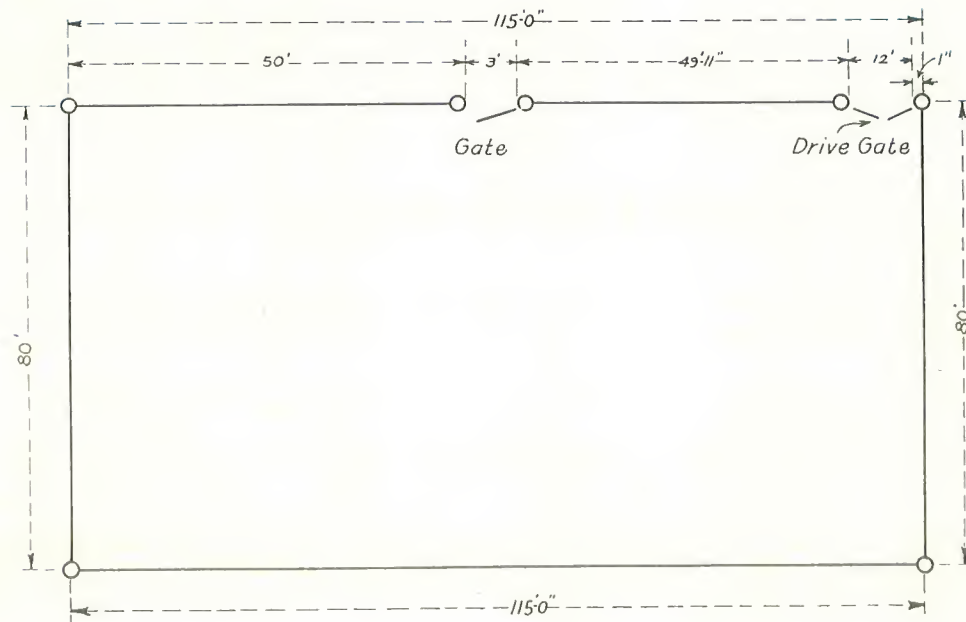
Setting Posts

The "Standard Installation Specifications" shows the relative heights to which terminal and line posts should be set, both with and without post caps. All corner, end, and gate, or terminal posts, should be set first, being extremely careful to have them perfectly level from all sides. Gate openings are always measured from inside to inside of gate posts. If the stretch is not too great a line or cord may be drawn between the terminal posts to keep the intermediate posts in a straight line. Line posts without post tops should be set 2 inches lower than the height of the wire fabric.

After all posts are set the top rail and braces are attached with correct fittings as shown on preceding diagram. Wire should not be stretched until the terminal posts are well set, which is usually after 48 hours. The fabric is attached to each end of the fence and stretched from the center.

To splice two pieces of chain link fabric place the two ends to be spliced about $\frac{1}{2}$ inch apart being sure to have a single or open picket on one side and a double or twisted picket on the opposite side. A single picket can now be interwoven with the two ends by turning to the right in cork screw fashion.

Fence Installation



IN ORDERING fence without the assistance of fence erectors, take great care in the specifications you send us for upon them are based both prices and construction.

For style, follow the diagram, indicating exactly each measurement and stretch of fence. Mention style of fence and fabric with height, and whether with or without barb-wire arms. State gauge and mesh and size of wire, and state also total measurement including gate openings.

If fence is to be built upon curb or wall, give details. State also whether gates shall be height of fence or total height of fence, plus height of wall or curb. It is very important that any extreme grade of ground be mentioned.

General Fence Information

To secure maximum strength and to insure permanent alignment we recommend that all fence

posts be set in concrete and that post foundations be properly crowned at top so that water will drain away from post—thus preventing rust and corrosion at base where post enters the concrete.

If the fence is to be installed upon a brick or concrete wall that is already constructed, simply drill holes, place the posts and fill around them with cement. When the fence is to be installed coincident with the building of the wall, posts can be easily set in the wall.

Use care in describing and ordering the fence you require. Follow diagram and check over each stretch and opening of fence. Every shipment we make to our customers is built in our factory according to the purchasers' specifications. If the installation be difficult to order or erect, and you desire our assistance, we will provide expert fence erectors to aid you in any and every fencing capacity.

Specifications for American Wire Fence

Fabric:

Shall be copper bearing wire heavily galvanized after woven by the "hot dip" process with a pure zinc coating. For heavy construction the wire shall be No. 6 and for light construction No. 9 W. & M. gauge of 2" mesh. For tennis court back stops and enclosures the wire shall be No. 11 W. & M. gauge of 1 $\frac{3}{4}$ " mesh.

Frame Work:

All frame work (which includes posts, top rail, braces, gate frames and all fittings) shall be heavily zinc coated by the hot galvanizing process.

Line Posts:

Tubular steel posts of either of the following sizes—2" outside diameter, weight 2.68 lbs. per foot for line posts for fence under 6 ft. high; or 2 $\frac{1}{2}$ " outside diameter, weight 3.65 lbs. per foot for line posts for fence 7 ft. high over all or higher, spaced 10 ft. apart, to be set 3 ft. deep in concrete footings. 6 ft. high fence may be furnished with either 2" or 2 $\frac{1}{2}$ " O. D. line posts.

End Posts:

Shall be of tubular steel 3" outside diameter, weighing 5.73 lbs. per foot and fitted with ball cap. They shall be set 39" deep into concrete footings. Horizontal brace shall be 1 $\frac{5}{8}$ " O. D. tubing with pressed steel end fittings. For light construction fence requiring 2" O. D. line posts 2 $\frac{1}{2}$ " O. D. end posts may be used.

Corner Posts:

Shall be of tubular steel 3" outside diameter, weighing 5.73 lbs. per foot and fitted with ball cap. They shall be set 39" deep into concrete footings. Horizontal brace shall be 1 $\frac{5}{8}$ " O. D. tubing with pressed steel end fittings. For light construction fence requiring 2" O. D. line posts 2 $\frac{1}{2}$ " O. D. end posts may be used.

Gate Posts:

For single gates 7 to 12 ft. wide and double gates 13 to 24 ft. wide—the posts shall be tubular steel 4" outside diameter, weighing 9 lbs. per ft. and fitted with auxiliary brace. For narrower gate openings 3" O. D. posts may be used for heavy construction fence and 2 $\frac{1}{2}$ " O. D. gate posts for light construction fence.

Top Rail:

Shall be 1 $\frac{5}{8}$ " O. D. tubing fitted with sleeve couplings to provide for expansion and contraction. Top rail shall pass through the pressed steel tops of line posts and shall be securely fastened to end, corner, and gate posts by proper pressed steel fittings.

Extension Arms:

Where barbed wire over-hang is required the arms shall be either for three or five strands as specified. The arms shall be of pressed steel properly attached to posts.

Barbed Wire:

Hot galvanized, shall be made of two No. 12 W. & M. gauge twisted wires with 4 point barbs, spaced 3 inches apart, and secured to end and gate posts.

Tension Wires:

Shall be of No. 6 W. & M. gauge galvanized spring wire so coiled as to permit expansion and contraction, and shall be used where top rail is omitted.

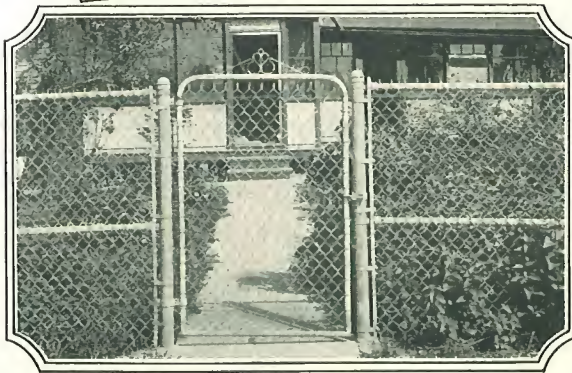
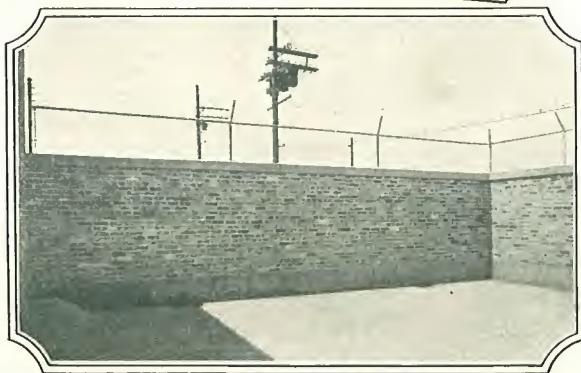
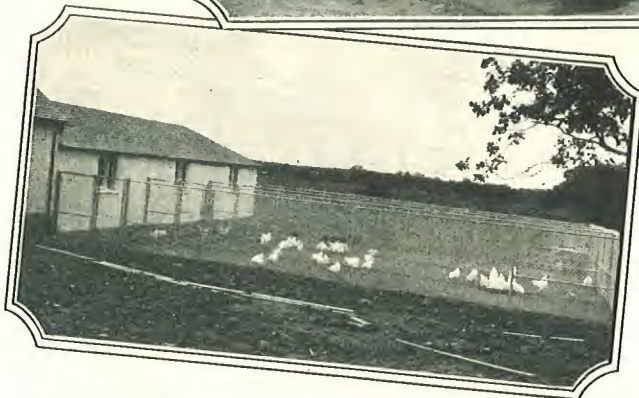
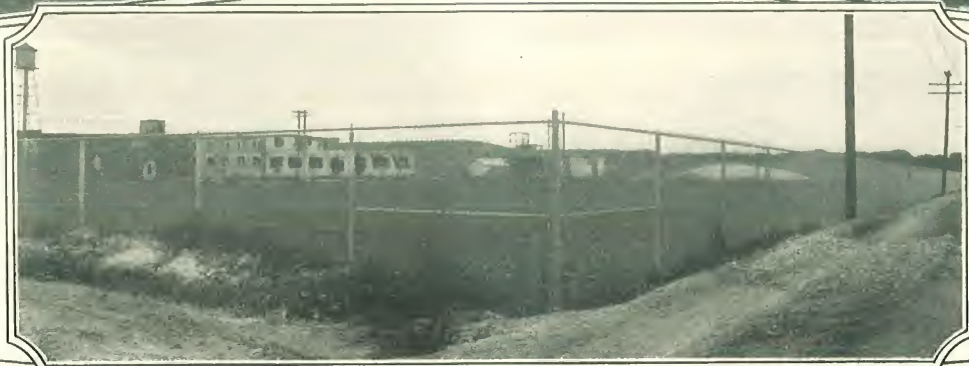
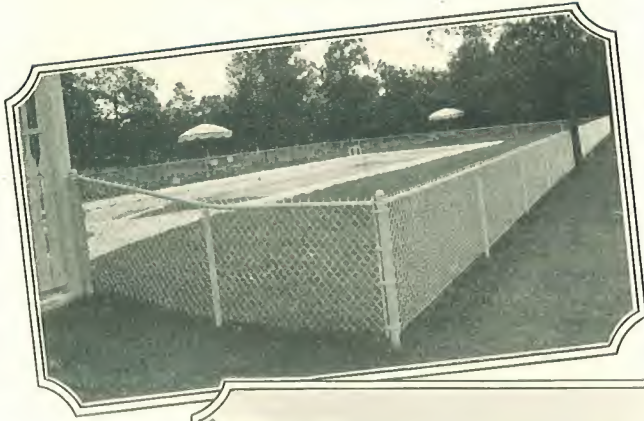
Gates:

All gates shall be fitted with fabric to match fence. Frames shall be of tubular steel 1 $\frac{9}{10}$ " outside diameter, with intermediate horizontal braces of tubular steel 1 $\frac{5}{8}$ " outside diameter. No fittings, bolts or rivets are used in assembling the gate frames, all joints are welded to produce a gate to prevent sagging or twisting out of alignment. Hinges shall be of heavy pressed steel providing adjustment in any direction and permitting gate to swing back against fence. Gates 5 ft. and lower and standard tennis court gates may be made of 1 $\frac{5}{8}$ " O. D. frame.

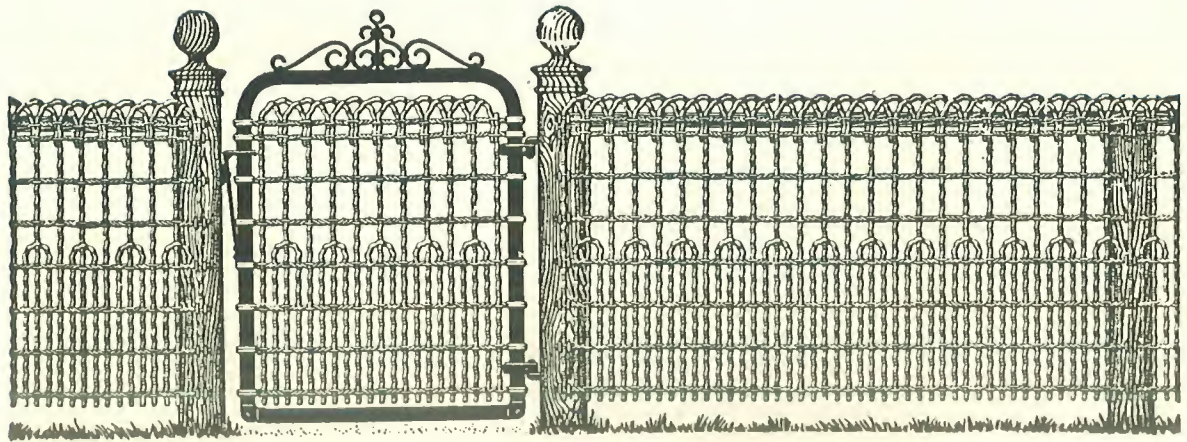
Tennis Courts:

Shall be of either heavy or light construction as specified. Heavy construction shall be of 2 $\frac{1}{2}$ " O. D. line posts spaced 10 ft. apart with 1 $\frac{5}{8}$ " O. D. top rail. Light construction shall be of 2" O. D. line posts spaced 8 ft. apart with 1 $\frac{3}{8}$ " O. D. top rail. Fabric in either case shall be No. 11 W. & M. gauge 1 $\frac{3}{4}$ " mesh.

Fence Installations



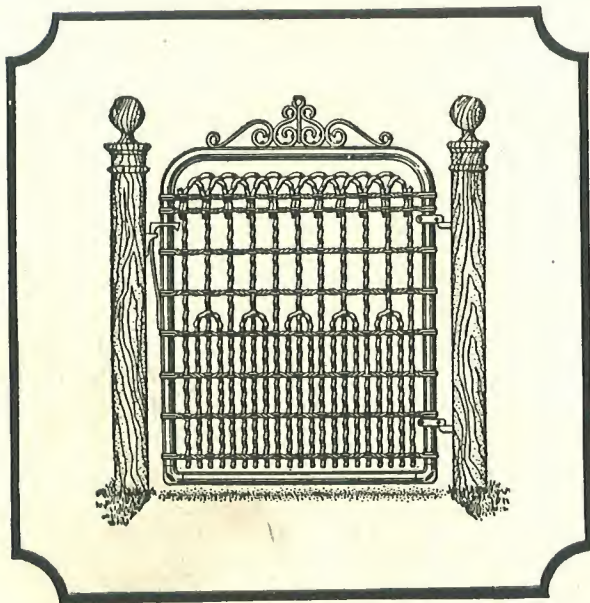
American Lawn Fence



Ornamental Fence—Type "A"

An ideal fence for homes where minimum first cost is desired. The uprights are $9\frac{1}{2}$ gauge, with 3-inch spacing at top and $1\frac{3}{8}$ inches at bottom. The horizontal cables are two No. 13 gauge wires twisted together. Heights 3, $3\frac{1}{2}$ and 4 feet.

Ornamental Walk Gates



For Type "A" Fence

VERY popular gate used with lawn fence. Suitable for homes, private parks, etc. Frames are best steel tubing $1\frac{1}{16}$ inches in diameter; painted green. Heavy ornamental scroll top. Complete with latch and hinges for steel or wooden posts. When ordering, please designate distance between posts. Made in these sizes:

Height	Distance Between Posts
36, 42 or 48 inches	3 feet
36, 42 or 48 inches	$3\frac{1}{2}$ feet

American Lawn Fence

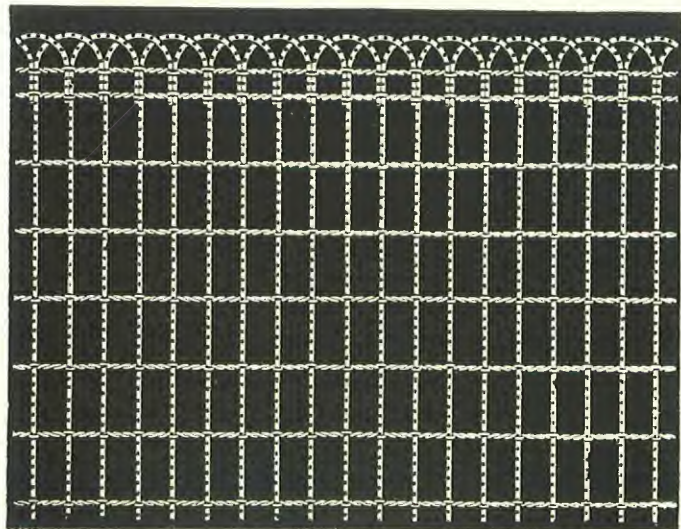


Ornamental Fence—Type “B”

THIS fence is the same as Type “A” with the exception that the bottom short stays are omitted leaving 3-inch space between up-rights. Supplied in heights 36, 42, and 48 inches. In design, workmanship and durability, American lawn fence is unexcelled.

This is an inexpensive type of fence used extensively where a more lasting and higher-priced fence is unnecessary for the purpose desired. Such a fence makes an ideal property line barrier.

Wooden posts may be used and will provide long and very satisfactory service.



American Life Net Road Guard



THE fact that chain-link road guard is being insisted upon in the highway specifications of practically every state in the Union, leaves no room for doubt as to its unapproachable value to the motorists who travel the highways.

American Life Net has an unbroken record of success and satisfaction. It is a special-woven steel mesh fabric, capable of absorbing and stopping the shock of most violent collisions without serious harm to either vehicle or occupants.

Wood guard rail, only a warning at best, is deemed obsolete by experienced highway engineers and officials and is rapidly being replaced with American Life Net.

Standard height is 2 feet. Prices and specifications upon request.







